

20030530.qrp v02_n936.qrl.20030530

Date: Fri, 30 May 2003 19:03:10 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2936

QRP-L Digest 2936

Topics covered in this issue include:

- 1) [151526] Re: more solar -Fw: e-alert 05.29 21:15 UTC-- long
by Rob Matherly <w0jrm@arrl.net>
- 2) [151527] 2300z band CDX May 29/03
by Fred Lesnick <flesnick@tbaytel.net>
- 3) [151528] Re: [OT] SuSE 8.2 Pro [long]
by "Paul Mills" <quahog@localnet.com>
- 4) [151529] Re: more solar -Fw: e-alert 05.29 21:15 UTC-- long
by "Dave Sjolin" <sjolin@swbell.net>
- 5) [151530] Fwd: ORIGINAL-QRP-CONTESTSs 2003
by dl6aaf@t-online.de (Uwe Meier)
- 6) [151531] Re: [OT] SuSE 8.2 Pro [long]
by "Dave Ek" <ekdave@earthlink.net>
- 7) [151532] Re: [OT] SuSE 8.2 Pro [long]
by "Nick Kennedy" <nkennedy@tcainternet.com>
- 8) [151533] Yard cleaning
by Tom Popovic <ki3r@yahoo.com>
- 9) [151534] FS: Shack cleanout items
by Rick McKee <kc8aon@juno.com>
- 10) [151535] [CONTEST] N2CQ QRP Contest Calendar - June 2003
by "Ken Newman" <N2CQ@Dandy.Net>
- 11) [151536] Another AT Sprint Lives
by "Alan Fryer" <N3BJ@hotmail.com>
- 12) [151537] CW Broadcasting? - NB6GC
by "Steve Yates - AA5TB" <aa5tb@arrl.net>
- 13) [151538] RE: CW Broadcasting? - NB6GC
by "Paul Ermisch" <paul@ermisch.com>
- 14) [151539] Fox Hunt, by Invitation Only this Summer! Read this...
by Lloyd Lachow <llachow@yahoo.com>
- 15) [151540] DSP101 - Was soundcard filtering
by <stanw@toxosor.com>
- 16) [151541] wanted: broken qrp rigs
by "Craig A. Ferris" <cferris@aeronix.com>
- 17) [151542] Summer FOX Hunt starting
by "Doc K0EVZ" <dock0evz@earthlink.net>
- 18) [151543] Summer Fox Hunt: Team Guidelines
by Bruce Rattray <rattray@gpfn.sk.ca>
- 19) [151544] Piggies and Foxes

- by "Jerry Ford" <benlightnd13@mchsi.com>
- 20) [151545] FS: HC908 Daughtercard
by Larry East <w1hue@amsat.org>
 - 21) [151546] Re: Summer FOX Hunt starting
by Bob Nielsen <nielsen@oz.net>
 - 22) [151547] Re: Summer FOX Hunt starting
by Wayne_W5KDJ <w5kdj@juno.com>
 - 23) [151548] HAMCOM Invitation!
by "Doc - W5TB" <w5tb@arrl.net>
 - 24) [151549] Re: Summer FOX Hunt starting
by brian@iquest.net
 - 25) [151550] FOX Hunt Hours [g]
by "Doc K0EVZ" <dock0evz@earthlink.net>
 - 26) [151551] N2APB makes (virtual) ink!
by David Hinerman <WD8CIV@worldnet.att.net>

Date: Thu, 29 May 2003 17:42:47 -0500
From: Rob Matherly <w0jrm@arrl.net>
To: w5xe@juno.com,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [151526] Re: more solar -Fw: e-alert 05.29 21:15 UTC-- long
Message-ID: <200305291742.47185.w0jrm@arrl.net>
Content-Type: text/plain;
charset="iso-8859-1"
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable

On Thursday 29 May 2003 04:35 pm, William R Colbert wrote:

> Going from a bad K6 to K8 is really bad with
> an A index of 69 - horrid.

Is that why it seems like my antenna ain't hooked up? :^)

72/73/oo
Rob, w0jrm

Date: Thu, 29 May 2003 19:18:27 -0400
From: Fred Lesnick <flesnick@tbaytel.net>
To: QRPL <qrp-l@Lehigh.EDU>, hfpack <hfpack@yahoogroups.com>
Subject: [151527] 2300z band CDX May 29/03
Message-ID: <3ED69543.F90950B2@tbaytel.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Just got in the door, turned the radio on and listened on 14.070.5 to find teh band almost stone dead, hearing a few faint signals with some aurora present, so must have been one big solar storm.

Fred
VE3FAL

Date: Thu, 29 May 2003 19:50:54 -0400
From: "Paul Mills" <quahog@localnet.com>
To: <QRP-L@Lehigh.EDU>
Subject: [151528] Re: [OT] SuSE 8.2 Pro [long]
Message-ID: <000b01c3263d\$26e4df60\$91659942@cybrinjn>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Also try this: <http://www.openwatcom.org/>. It is a windows compiler but lacks all the bells and whistles that a commercial compiler comes with, but it works.

Paul KB1GEJ

----- Original Message -----
From: geoff allsup <gallsup@whoi.edu>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Sent: Thursday, May 29, 2003 1:22 PM
Subject: Re: [OT] SuSE 8.2 Pro [long]

> Chuck Adams wrote:
> >
> > I don't see a C compiler for free for WindowsXX any
where..... :-)
> >
>
>
> FWIW, see djgpp:
>
> <http://www.delorie.com/djgpp/>
>
> - works reasonably well if you're trapped in Win/Dos :-(

>
>
> geoff
>
>
> --
>

**
> Geoff Allsup, W10H gallsup@whoi.edu or wloh@arll.net
> Upper Ocean Processes Group
> Woods Hole Oceanographic Institution Woods Hole, MA, USA
>

**
>
>

Date: Thu, 29 May 2003 19:02:08 -0500
From: "Dave Sjolín" <sjolin@swbell.net>
To: <w5xe@juno.com>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [151529] Re: more solar -Fw: e-alert 05.29 21:15 UTC-- long
Message-ID: <07d201c3263e\$b759a840\$78d1fea9@DaveSjolín>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

But on the other hand, six and two meters are hopping with aurora.
Propagation even reaching down into Oklahoma, Arkansas and Missouri. More cw
than you typically hear on VHF.

73 de Dave, N0IT

----- Original Message -----
From: "William R Colbert" <w5xe@juno.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Thursday, May 29, 2003 4:35 PM
Subject: more solar -Fw: e-alert 05.29 21:15 UTC-- long

> More solar tantrums from the NW7US list.
>
> Going from a bad K6 to K8 is really bad with

> an A index of 69 - horrid.
>
> 73
> Ray
> "Texas can make it without the United States,
> but the United States can't make it without Texas."
> Sam Houston, Governor
> Ray Colbert, W5XE, 00TC/#3618, SOWP/#1064M
> ARCI-5784 NCT2R El Paso, (FAR WEST) TEXAS
>
> ----- Forwarded message -----
> From: Tomas NW7US <sr@hfradio.org>
> Date: Thu, 29 May 2003 14:25:32 -0700
> Subject: e-alert 05.29 21:15 UTC
>
> SFI:138 frm 130 A:69 frm 34 K:8 frm 6 (330 nT) 2100 29 May
> Frcst: SWX next 24h:strong: G3 S1 R2
> Obs: SWX last 24h:severe: G4 S2 R3
>
> Flare: 6h hi:M2(1935Z May29) 24h hi:X1(0105Z May29)
>
> SSN: 116 (28 May 2003)
> Au: 10
> S Wind: 782 km/s @ 31.6 protons/cm3
>
> Global HF Propagation Conditions
> for 2000Z on 29 May, 2003
> Low Latitude: Poor
> Mid Latitude: Poor
> Hi Latitude: Poor(PCA)
>
> Warning (188): Proton 10MeV Integral Flux above 10pfu expected
> From: 2003 May 28 0400 UTC To: 2003 May 29 1500 UTC
> Condition: Onset. Extends Warning #187.
>
> Watch (24): Geomagnetic A-index of 50 or greater predicted
> Valid for UTC Day: 2003 May 30
>
> Warning (259): Geomagnetic K-index of 5 expected
> From: 2003 May 28 2320 UTC To: 2003 May 29 1500 UTC
> Condition: Onset
>
> Warning (260): Geomagnetic K-index of 5 expected
> From: 2003 May 28 2320 UTC To: 2003 May 30 1500 UTC
> Condition: Persistence. Extends Warning #259.
>
> Watch (262): Geomagnetic A-index of 20 or greater predicted
> Valid for UTC Day: 2003 May 29

>
> Watch (263): Geomagnetic A-index of 20 or greater predicted
> Valid for UTC Day: 2003 May 31
>
> Warning (4): Geomagnetic K-index of 7 or greater expected
> From: 2003 May 29 1840 UTC To: 2003 May 30 1500 UTC
> Condition: Onset
>
> Watch (62): Geomagnetic A-index of 30 or greater predicted
> Valid for UTC Day: 2003 May 30
>
> Warning (64): Geomagnetic K-Index of 6 expected
> From: 2003 May 29 1545 UTC To: 2003 May 29 2359 UTC
> Condition: Onset
>
> Alert (1): Geomagnetic K-index of 8
> Period: 1800-2100 UTC
> Threshold Reached on 2003 May 29 2013 UTC
>
> Alert (28): Geomagnetic K-index of 7
> Period: 1800-2100 UTC
> Threshold Reached on 2003 May 29 1909 UTC
>
> Alert (292): Geomagnetic K-index of 5
> Period: 0000-0300 UTC
> Threshold Reached on 2003 May 29 0218 UTC
>
> Alert (97): Geomagnetic K-index of 6
> Period: 1500-1800 UTC
> Threshold Reached on 2003 May 29 1633 UTC
>
> Alert (98): Geomagnetic K-index of 6
> Period: 1800-2100 UTC
> Threshold Reached on 2003 May 29 1902 UTC
>
>
> Support: <http://hfradio.org/notice.html>
> More Info / Unsubscribe: <http://hfradio.org/propagation.html>
>

Date: Fri, 30 May 2003 02:12:20 +0200 (MET DST)
From: dl6aaf@t-online.de (Uwe Meier)
To: qrp-l@lehigh.edu
Subject: [151530] Fwd: ORIGINAL-QRP-CONTESTSs 2003

Message-ID: <200305300012.CAA00640@joringel.t-online.de>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

From: DJ7ST @ DB0ABZ.#NDS.DEU.EU

QRP-CONTEST-COMMUNITY (qrpcc)

28-May-2003

c/o Hartmut Weber, DJ7ST

Schlesierweg 13

D-38228 SALZGITTER

ORIGINAL-QRP-CONTESTs 2003

Dear OQRP contest friends,

the OQRP-Contests in 2003 as in every year will take place at the first weekend in July and the first weekend after Christmas Day:

14th ORIGINAL-QRP-CONTEST at 05/06-Jul-2003, 1500-1500 UTC

15th ORIGINAL-QRP-CONTEST at 27/28-Dec-2003, 1500-1500 UTC

The rules will stay unchanged.

(In the infoletters sent by post last week the event in July by mistake has been "forgotten", pse excuse!)

Hpe cu, maybe tomorrow (Ascension Day) in the QRP-MINIMAL-ART-SESSION!
!

73/2 "Hal", Hartmut, DJ7ST

Date: Thu, 29 May 2003 18:47:06 -0600

From: "Dave Ek" <ekdave@earthlink.net>

To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>

Subject: [151531] Re: [OT] SuSE 8.2 Pro [long]

Message-ID: <000f01c32644\$ff1fc690\$6401a8c0@NORTHROPJ6SJ50>

MIME-Version: 1.0

Content-Type: text/plain;

charset="Windows-1252"

Content-Transfer-Encoding: 7bit

Try Cygwin for their version of gcc (which will compile to a lot of platforms):

www.cygwin.com

Cygwin is a Windows implementation of much of what exists in the Unix/Linux world for tools & utilities (gcc, make, grep, vi, etc.). I use it all the time for doing PalmOS programming (although you have to use a special version of gcc for PalmOS...).

73 de Dave NK0E

Geoff wrote:

Chuck Adams wrote:

>
> I don't see a C compiler for free for WindowsXX any where..... :-)
>

FWIW, see djgpp:

<http://www.delorie.com/djgpp/>

- works reasonably well if you're trapped in Win/Dos :-)

geoff

Date: Thu, 29 May 2003 20:53:21 -0700
From: "Nick Kennedy" <nkennedy@tcainternet.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [151532] Re: [OT] SuSE 8.2 Pro [long]
Message-ID: <008501c3265f\$038d3400\$0400000a@wa5bdu>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Borland has a pretty heavy duty free one out there too. It's for Windows, but doesn't include any graphics stuff. Your program runs in a text window that "looks like" DOS.

72--Nick, WA5BDU

----- Original Message -----

From: "geoff allsup" <gallsup@whoi.edu>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Thursday, May 29, 2003 10:22 AM

Subject: Re: [OT] SuSE 8.2 Pro [long]

> Chuck Adams wrote:

> >

> > I don't see a C compiler for free for WindowsXX any where..... :-)

> >

>

Date: Thu, 29 May 2003 19:33:47 -0700 (PDT)

From: Tom Popovic <ki3r@yahoo.com>

To: qrp-1@Lehigh.EDU

Subject: [151533] Yard cleaning

Message-ID: <20030530023347.87235.qmail@web11204.mail.yahoo.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

I have the following that I want to go as a package:

HDBX 48 ft free standing tower

thrust bearing

mast

Heath 4 position antenna switch (via Coax)

gin pole

TH-6 DXX with stainless hardware kit

Ringo ranger 2 meter vert

All for \$500 as I am moving to new home. Yes the tower is down and the antenna bundled and marked as per CW subbands. Pick up only ...nr Pittsburgh

Info KI3R Tom Popovic 412-672-7567

=====

The common good was the claim and justification of every tyranny ever established over men. Every major horror of history was committed in the name of altruistic motive... Actors change, but the course of the tragedy remains the

same. Ayn Rand 1943

Do you Yahoo!?

Yahoo! Calendar - Free online calendar with sync to Outlook(TM).

<http://calendar.yahoo.com>

Date: Thu, 29 May 2003 22:23:01 -0400

From: Rick McKee <kc8aon@juno.com>

To: fpqrp-l@mpna.com, qrp-l@Lehigh.EDU

Subject: [151534] FS: Shack cleanout items

Message-ID: <20030529.222306.9198.2.kc8aon@juno.com>

The Dow Key relay has been sold, items below still remain.

Still have the Vectronics VEC-830 SSB audio Filter, in Vectronics case, some scratches on front and rear panel, but works great, 3 bandwidths and bypass position. \$20 plus shipping

MFJ CWF-2 CW filter, board only, no cabinet, works great, will include a multi position switch to select different bandwidths (3 positions plus bypass position). Bought this to put inside my Yaesu FT-7 but theres no room inside the radio for it ! \$10 plus shipping

Lionell J-38 straight key in great shape, shorting bar missing, has original bakelite mounting plate, no cable. \$25 plus shipping

British military straight key marked, Key W.T. 8 Amp MKIII, good condition, made almost entirely of bakelite except for the screws and contacts. \$25 plus shipping

G5RV antenna, unused, made with Belden 14 gauge stranded brown insulated wire, center insulator has eyebolt for hanging as an inverted V. This is a full size G5RV, 102' long with 34' of 450 ohm windowline. No balun or connectors on end of balanced line. Made it up with new materials and never used it - put up a 40 meter extended double zepp instead ! \$25 plus shipping

Various used parts too numerous to list, (meters, pots, knobs, transformers, capacitors etc etc), let me know what you need and I'll see if I have it. Prices will be cheap !

If interested, please contact me off the list & thanks for the BW

72/73 de: Rick McKee, KC8AON <> Willow Wood, Ohio <> Grid: EM88rl
SW 40+, HW-8, Yaesu FT-7, Homebrew 6V6 tube TX & Hallicrafters SW500 RX
QRP-L #2112, FPqrp #33, AR QRP #269
QRP'ers DEPEND ON SKILL - NOT RAW POWER !

The best thing to hit the internet in years - Juno SpeedBand!
Surf the web up to FIVE TIMES FASTER!
Only \$14.95/ month - visit www.juno.com to sign up today!
-To unsubscribe, mail to majordomo@fpqrp.com, msg: unsubscribe fpqrp-l -

----- End forwarded message -----

The best thing to hit the internet in years - Juno SpeedBand!
Surf the web up to FIVE TIMES FASTER!
Only \$14.95/ month - visit www.juno.com to sign up today!

Date: Thu, 29 May 2003 22:56:07 -0400
From: "Ken Newman" <N2CQ@Dandy.Net>
To: "W3BG Jim Samuels" <W3BG@arrl.net>,
"K8NI Norm Into" <normk8ni@neo.rr.com>,
Subject: [151535] [CONTEST] N2CQ QRP Contest Calendar - June 2003
Message-ID: <007e01c32657\$0a0e1090\$6cea80d1@kensdell>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

~~~~~  
N2CQ QRP CONTEST CALENDAR  
June 2003

~~~~~  
Summer FOX Hunt - Sunday June 1 through Sunday August 10.
Sunday July 6,- BYE weekend.
2200-2330Z late Sunday afternoon.
Info: <http://www.cqc.org>

~~~~~  
Great Lakes QSO Party (Ph/CW/Digital) ... QRP Category  
May 31 - 0000z to Jun 1 - 2400z  
Rules: <http://www.mdxa1.org/1ag1qp.html>  
~~~~~

AGCW Activity Week (CW) ... QRP Category

Jun 2 - 0000z to Jun 6 - 2400z

Rules: <http://www.agcw.de/>

(Not really contest but activity instead)

~~~~~  
Adventure Radio Spartan Sprint (CW) ... QRP Contest!

Jun 3 - 0100z to 0300z (Monday evening US/Canada)

Rules: [http://www.natworld.com/ars/pages/spartan\\_sprints/ss\\_rules.html](http://www.natworld.com/ars/pages/spartan_sprints/ss_rules.html)

~~~~~  
IARU Region 1 Fieldday (CW) ... QRP Category

Jun 7 - 1500z to Jun 8 - 1500z

Rules: <http://www.sk3bg.se/contest/iarur1fd.htm>

~~~~~  
QRP TACTical Contest (CW) ... QRP Contest!

Jun 7 - 1800z to 2400z

Rules: <http://www.n3epa.org/Pages/TAC-Contest.htm>

~~~~~  
Portugal Day Contest (SSB)

Jun 14 - 0000z to 2400z

Rules: <http://www.sk3bg.se/contest/portday.htm>

~~~~~  
ANARTS WW RTTY/Digital Contest

Jun 14 - 0000z to Jun 15 - 2400z

Rules: <http://www.users.bigpond.com/ctdavies/Rules%202003.txt>

~~~~~  
Asia-Pacific Sprint (SSB)

Jun 14 - 1100z to 1300z

Rules: <http://jsfc.org/apsprint/>

~~~~~  
West Virginia QSO Party (SSB/CW)... QRP Category

Jun 14 - 1600z to Jun 15 - 0200z

Rules: <http://www.qsl.net/wvarrrl/>

~~~~~  
ARRL June VHF QSO Party QRP Portable Category

Jun 14 - 1800z to Jun 16 - 0300z

Rules: <http://www.arrl.org/contests/rules/2003/june-vhf.html>

~~~~~  
All Asian DX Contest (CW)

Jun 21 - 0000z to Jun 22 - 2400z

Rules: <http://www.jarl.or.jp/English/0-2.htm>

~~~~~  
SP QRP Contest (CW) ... QRP Contest!

Jun 28 - 1200z to Jun 29 - 1200z

Rules: <http://www.sk3bg.se/contest/spqrp.htm>

~~~~~  
Marconi Memorial Contest (CW) ... QRP Category

Jun 28 - 1400z to Jun 29 - 1400z

Rules: <http://www.qsl.net/ik6ptj/marconi.htm>

~~~~~  
ARRL Field Day (CW/SSB/RTTY)... QRP Category
Jun 28 - 1800z to Jun 29 - 2100z
Rules: <http://www.arrl.org/contests/rules/2003/rules-fd-2003.html>
~~~~~

QRP ARCI Milliwatt Field Day (ALL)... QRP Contest!  
Jun 28 - 1800z to Jun 29 - 2100z  
Rules: <http://personal.palouse.net/rfoltz/arci/mwfd.htm>  
~~~~~

Thanks to SM3CER, WA7BNM, N0AX(ARRL), WB3AAL and others
for assistance in compiling this calendar.

Please foreward the contest info you sponsor to N2CQ@ARRL.NET and
we will post it and give it more publicity.

Anyone may use this "N2CQ QRP Contest Calendar" for your website,
newsletter, e-mail list or other media as you choose.

(Include a credit to the source of this material of course.)

72 de

Ken Newman - N2CQ

N2CQ@ARRL.NET

<http://www.njqrp.org/data/contesting.html>

<http://www.n3epa.org/Pages/Contest/contest.htm>

<http://www.qsl.net/cqrp/contests.html>

Date: Fri, 30 May 2003 06:38:54 -0400
From: "Alan Fryer" <N3BJ@hotmail.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [151536] Another AT Sprint Lives
Message-ID: <Law9-0E60plW6RjJfZM00023856@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Got the Sprint operating on 20M last night after clearing two solder
problems. Band was so poor I couldn't test it properly, but I will this
weekend and report out to the list.

What an amazing small package !

Thanks, Steve, for another great project. You topped yourself this time !

Alan, N3BJ
Bent Mountain, VA

Date: Fri, 30 May 2003 07:12:07 -0500
From: "Steve Yates - AA5TB" <aa5tb@arrl.net>
To: "QRP-L Distribute" <qrp-l@Lehigh.EDU>
Subject: [151537] CW Broadcasting? - NB6GC
Message-ID: <000501c326a4\$b13db850\$0100a8c0@MAIN>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I've been hearing the USS Hornet, NB6GC, broadcasting for at least 24 hours straight on 7.031 and 14.031 MHz. It is advertising CW practice on May 31, 2003 at 0900 PDT but for now the message is simply repeated over and over. The signal is very strong here in Texas. Anyone else hear it? W1AW isn't even on the air this much. I've noticed some instability problems with the code speed and transmit frequency. It sure would be a mess (spectrum wise) if everyone did this.

73,
Steve Yates - AA5TB

<http://www.qsl.net/aa5tb/>

Date: Fri, 30 May 2003 06:45:22 -0600
From: "Paul Ermisch" <paul@ermisch.com>
To: <aa5tb@arrl.net>,
 "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [151538] RE: CW Broadcasting? - NB6GC
Message-ID: <NHBBIMAFPBCKANGJGAPDEEKOCBAA.paul@ermisch.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Yes, I heard it about 0345Z on 7.03? last night. Thought I read something in QST or on eham.net that someone got approval or was seeking approval for this. But also seem to remember it was more for bulletin broadcasts rather

than code practice. Searching both sites did not turn up any explanation.

Paul KB0LUR

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of Steve Yates - AA5TB
Sent: Friday, May 30, 2003 6:12 AM
To: Low Power Amateur Radio Discussion
Subject: CW Broadcasting? - NB6GC

I've been hearing the USS Hornet, NB6GC, broadcasting for at least 24 hours straight on 7.031 and 14.031 MHz. It is advertising CW practice on May 31, 2003 at 0900 PDT but for now the message is simply repeated over and over. The signal is very strong here in Texas. Anyone else hear it? W1AW isn't even on the air this much. I've noticed some instability problems with the code speed and transmit frequency. It sure would be a mess (spectrum wise) if everyone did this.

73,
Steve Yates - AA5TB

<http://www.qsl.net/aa5tb/>

Date: Fri, 30 May 2003 06:35:05 -0700 (PDT)
From: Lloyd Lachow <llachow@yahoo.com>
To: "Li'l Piggies" <fpqrp-l@mpna.com>,
a low-energy group <qrp-l@lehigh.edu>,
Subject: [151539] Fox Hunt, by Invitation Only this Summer! Read this...
Message-ID: <20030530133505.3162.qmail@web41012.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

The dreary days are almost gone, even here in the Northeast, where gloom has been reigning for weeks. The reigns are stopping, the glory of late Spring turning into Summer begins, and to celebrate, we lucky few have the 20 Meter Summer Fox Hunt. By Invitation Only. All QRP ops are invited, and that means y-o-u.

The website for this contest is here:

<http://www.cqc.org/fox/index.htm>

The Hunts will be on Sundays, from 2200-2329Z. It's a new (and shorter!) time slot, and will result in, hopefully, better conditions for all.

This Sunday, Jim, N0UR, and yours truly will be the Foxii. One of us will be below 14.060, one above. Usually we'll be 2-3 kHz above/below, allowing for QRM. We'll be working split, that is, we'll be listening to Hounds from 1-3 kHz above our frequencies (sometimes below). Hounds should take note of this, and try to avoid transmitting much closer to the Fox than 1 kHz.

The Foxii will call "CQ FOX," or "QRZ FOX," or some such. Hounds should then send their call, listen, and resend in a few seconds if the Fox doesn't start working someone. The Fox will usually send the Hound's call at the beginning and end of his transmission, as: "W1AW TU 559 MD LLOYD 5W W1AW BK," after which the Hound will reply sort of like this, "W1AW 559 CT HIRAM 5W BK." The Fox will then acknowledge, or ask for fills. An acknowledgement may be something like, "TU," or "TU E E," etc. Then, the Hounds may once again begin baying out their calls. If the Fox does need to ask for any fills, no other Hound should transmit until the Fox acknowledges he's got it all.

Please send all your info only once; the Fox will ask for fills if necessary.

Besides being just a huge amount of fun, the Hunts allow us to learn and perfect our operating skills. As in all ham radio, and especially in QRP ops, the chiefest skill is listening. If you listen, you'll know when it's time to send your call, and when it's not. If you're not sure what's going on, or what the Fox is doing, don't send your call in hopes you'll get lucky...you wouldn't know if you did, anyway!

I'll be using my K1 into a 200' longwire up about 20'. There may well be a Truffle, handed out by a Flying Pig, for the 15 minutes prior to the start of each Hunt, which gives a chance to warm up your keys and ears. The rules for hunting Truffles are similar, except tthe Truffle will be sending his Flying Pig number, rather than his power. See details at:

<http://www.fpqrp.com/pighunt2.html>

Good luck, happy hunting, and...have fun!!!

=====

73, 72 es oo, Lloyd, K3ESE - Reisterstown, Maryland
multiPIG+ #14 - K1 # 00379 - 20/40M Rock-Mites
Hunk o' Wahr - Begali Magnetic Classic Paddles
ARRL - ARS #1301 - QRParci #11147 - FISTS #8774
FPQRP #476 - QRP-L #2415 - SOC #530
Fun = Skill / Power !

Do you Yahoo!?

Yahoo! Calendar - Free online calendar with sync to Outlook(TM).
<http://calendar.yahoo.com>

Date: Fri, 30 May 2003 08:54:32 -0500
From: <stanw@toxsor.com>
To: <qrp-l@lehigh.edu>
Subject: [151540] DSP101 - Was soundcard filtering
Message-ID: <000501c326b3\$027aa760\$0364010a@toxsor.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Everything you wanted to know plus a free text book on line on how to
develop DSP applications and programs.

<http://www.DSPguide.com>

Who will be the first to develop a variable CW filter or Noise reduction
circuit to use with their NorCal or Rock Mite ?

The ball is now in your court.

de stan ak0b

Date: Thu, 05 Jun 2003 10:00:28 -0400
From: "Craig A. Ferris" <cferris@aeronix.com>

To: qrp-1@Lehigh.EDU
Subject: [151541] wanted: broken qrp rigs
Message-ID: <3EDF4CFC.D6388CCC@aeronix.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Please reply direct with condition and price.

72,
Craig NR4E
Melbourne, FL

Date: Fri, 30 May 2003 10:36:7 -0500
From: "Doc K0EVZ" <dock0evz@earthlink.net>
To: "qrp-1 reflector" <qrp-1@lehigh.edu>,
"Elecrafft " <elecraft@mailman.qth.net>
Cc: "doc k0evz earthlink" <dock0evz@earthlink.net>
Subject: [151542] Summer FOX Hunt starting
Message-ID: <412003553015367303@earthlink.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII

Gang:

The Summer FOX Hunt on 20 Metres will begin this coming Sunday evening. I can hardly wait to hear the pileups! The hunts this season will be limited to 90 minutes. They will run from 2200Z - 2300Z. It is hoped that this late hour will work for the majority of us hunters. Max output power will of course be 5 watts.

More details are on the website = <http://www.cqc.org/fox/> . There you will find the complete schedule. Results will be posted throughout the season.

So dust off those rigs, tweak up your antennas, break out your headphones, and let's go have some fun. Be sure to pass the word that everybody is invited to participate. Here's hoping for the best Summer season ever!

73,
--Doc/K0EVZ for the FOX Committee = Marshall N1FN, Tom N1TP,
Bruce VE5JC, and Chuck Adams K7QO

Date: Fri, 30 May 2003 09:46:25 -0600 (CST)
From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@neale.gpfn.sk.ca>,
Low Power Group <qrp-l@LeHigh.EDU>
Subject: [151543] Summer Fox Hunt: Team Guidelines
Message-ID: <Pine.LNX.4.33.0305300944310.21800-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

We have the NE-TX Tornados so far....

Hello everyone!...here are the Team Guidelines for the Summer Fox Hunt which runs from July to Sept this year...when you have your Team of 5 stations formed please send me an e-mail so I can include you on the Official Teams roster...

.72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272
A-1 Operator Club - 10/10# 944 - 128 Durham Drive, Regina, SK.,
S4S-4Z2, Canada-AR Stamp Collector- "QRP! How sweet it is!"

..guidelines for year 2003 Summer season...

- TEAM GUIDELINES for the 20 mtr Fox Hunt -

Version 1.0

The main idea of the Team competition, is to have FUN, post tall tales after each hunt and to keep your CW fist loose!

- each Team will consist of 5 stations.
- obviously there will be times when some stations cannot make the fox hunt for various reasons...don't sweat it as that's the way the slippery seaweed sloshes!...

- scoring is the total NUMBER OF PELTS SKINNED AND ON THE WALL by each Team hunter as indicated in the posted fox logs.
- the winning Team will receive the love and adoration of fellow hunters and foxii!.... ;-) ...and bragging rights of course!
- I would appreciate it if all foxii would send me their final log direct so I can tally the Team scores after each hunt...

"So it was said; so let it be done" and good luck to all!!

- 72 - Bruce(VE5RC+VE5QRP) QRP-L#886 QRP-C#1

 Date: Thu, 29 May 2003 12:20:17 -0500
 From: "Jerry Ford" <benlightnd13@mchsi.com>
 To: "qrp-l" <qrp-l@lehigh.edu>, "Pigs" <multipigplus@yahoogroups.com>, "FPigs" <fpqrp-l@mpna.com>
 Subject: [151544] Piggies and Foxes
 Message-ID: <001d01c32606\$93ac2ea0\$f374da0c@mchsi.com>

Ladies and gentlemen:

Truffle and fox hunts on Sunday?? WIIIIIGIIIII
 This will be the first season I get to play. Thats is S0000000
 C0000000LLLLLL
 I see by the roster that there are several piggies playing foxes this summer. Please make a note that I will be looking for piggi numbers as well as making contact with the Truffle / fox.

BUT thats on Sunday !!

Anybody want to hang around a little late tonight and work a piggi contact or 2. I should be in from work about 24:00 CST and I will jump on 7.044 to see if anyone is around. If that darn SSB is still in there, I'll jump to 10.117 + / - and start calling CQ FP
 I hope to see some of you around.

73 / 72 to the gang: Jerry N0JRN

FP # 546, ARS # 923, ARCI # 11049, ARRL,

Springfield, Mo. <http://home.mchsi.com/~n0jrn/>
MP + # 8, K 1 # 608, SW 20 +, TT 1340 , RM 20 &
40, Tiny Tornado 20, 30, 40, 80, SMK - 1
and so on and so on

Date: Thu, 29 May 2003 17:04:16 -0600
From: Larry East <w1hue@amsat.org>
To: qrp-l@lehigh.edu
Subject: [151545] FS: HC908 Daughtercard
Message-ID: <5.1.0.14.2.20030529165022.01cc4dd0@mail.ultrasw.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

This is a project board from the New Jersey QRP Club. A short description:
"An 8 MHz module of 8-bit power with 32 KB of flash memory, 1 KB of RAM,
512 bytes of EEPROM, eight 8-bit A/D converters, a built-in RS232 Serial
port for loading new programs, an on-board 5V regulator and lots of I/O to
control just about any project you might need on your bench!" For more
info, see the NJQRP web site.

Original sealed plastic package containing the assembled card, shipping
carton and documentation. You can have it for \$30 including shipping in the
US (contact me for shipping costs outside the US). Add \$1.50 if you want to
pay via PayPal. (NJQRP's price is \$35.)

I waited almost a year to get this thing, and now I can't remember why I
wanted it!! So maybe someone can put it to good use rather than let it sit
on a shelf for my heirs to deal with...

72/73,
Larry, W1HUE/7
Tucson, AZ

Date: Fri, 30 May 2003 10:25:10 -0700
From: Bob Nielsen <nielsen@oz.net>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [151546] Re: Summer FOX Hunt starting
Message-ID: <20030530172510.GA14975@n7xy.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

Doc,

Have you figured out a method to squeeze 90 minutes into 2200-2300?

MPEG CW?

72/73,
Bob, N7XY

On Fri, May 30, 2003 at 10:36:07AM -0500, Doc K0EVZ wrote:

> Gang:

>

> The Summer FOX Hunt on 20 Metres will begin this coming Sunday evening. I
> can hardly wait to hear the pileups! The hunts this season will be limited
> to 90 minutes. They will run from 2200Z - 2300Z. It is hoped that this
> late hour will work for the majority of us hunters. Max output power will
> of course be 5 watts.

>

> More details are on the website = <http://www.cqc.org/fox/> . There you will
> find the complete schedule. Results will be posted throughout the season.

>

> So dust off those rigs, tweak up your antennas, break out your headphones,
> and let's go have some fun. Be sure to pass the word that everybody is
> invited to participate. Here's hoping for the best Summer season ever!

Date: Fri, 30 May 2003 18:36:42 GMT

From: Wayne_W5KDJ <w5kdj@juno.com>

To: dock0evz@earthlink.net

Cc: qrp-1@Lehigh.EDU

Subject: [151547] Re: Summer FOX Hunt starting

Message-ID: <20030530.113736.9032.106153@webmail03.lax.unttd.com>

Content-Type: text/plain

You folks on the east coast will probably hear a few stations, but 7mcs
at 1700L/2200z time here in Texas is usually dead.

Wayne_W5KDJ

NW Houston

SV0WWW_TF2WJN

ARS_1392 ARCI_11325 FISTS_10060 SOC_538

--- "Doc K0EVZ" <dock0evz@earthlink.net> wrote:

Gang:

The Summer FOX Hunt on 20 Metres will begin this coming Sunday evening. I can hardly wait to hear the pileups! The hunts this season will be limited to 90 minutes. They will run from 2200Z - 2300Z. It is hoped that this late hour will work for the majority of us hunters. Max output power will of course be 5 watts.

More details are on the website = <http://www.cqc.org/fox/> . There you will find the complete schedule. Results will be posted throughout the season.

So dust off those rigs, tweak up your antennas, break out your headphones, and let's go have some fun. Be sure to pass the word that everybody is invited to participate. Here's hoping for the best Summer season ever!

73,

--Doc/K0EVZ for the FOX Committee = Marshall N1FN, Tom N1TP,
Bruce VE5JC, and Chuck Adams K7QO

Date: Fri, 30 May 2003 13:38:06 -0500
From: "Doc - W5TB" <w5tb@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [151548] HAMCOM Invitation!
Message-ID: <00d701c326da\$9d179400\$0400a8c0@attbi.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

HAMCOM 2003 QRP EXTRAVAGANZA AND ARRL NATIONAL CONVENTION!

TIME IS RUNNING OUT! -- PRE-REGISTRATION WILL END SOON

=20

HamCom 2003 <http://www.hamcom.org/>

=20

Arlington Convention Center, Arlington, TX

=20

June 20, 21 & 22, 2003

=20

$$= 20$$
$$= 20$$
$$= 20$$

And what a QRP speaker lineup we have for everyone this year! The illustrious QRP speaker staff for this year's presentations includes: George Dobbs, G3RJV*; Graham Firth, G3MFJ*; Tony Fishpool, G4WIF*; Jim Duffey, KK6MC/5; Ron Sparks, AG5RS; Rick Hiller, W5RH; Dale Martin, KG5U; Howard Leverenz, AC5VF; Eric Swartz, WA6HHQ and; Doug Hendricks, KI6DS*

[illegible]

QRP Contesting - A Primer -- KG5U=20

KG5U -- Dale Martin -- Dale was first licensed in 1959 at the age of 13. He subsequently moved from California to Houston, Texas, where he has lived. He recently retired from NASA's Johnson Space Center after 39 years in communications, electronics, and information systems. He has been President, Secretary, and Treasurer of the JSC Amateur Radio Club a number of times and is currently the club's (W5RRR) QSL Manager and webmaster. Dale has been active in amateur radio contesting for twenty years. In recent years, he has been contesting at the QRP level in some of the more major contests (CQ WorldWide DX, CQ WW WPX, ARRL DX, ARRL Sweepstakes, North American QSO Parties, North American Sprints). When he's not on the radio, he can be found backpacking, hiking, bicycling, traveling, working on something to improve his station or working as a docent (volunteer) at the Houston Zoo. kg5u@hal-pc.org=20

Switching type power systems for the QRP'er -- joint AC5VF and AG5RS=20

AC5VF -- Howard Leverenz -- Howard has a Masters degree in Physics and =
has worked in various disciplines of engineering for about 25 years. The =
last 10 years or so he has been designing DC/DC switching power supplies =
for battery operated hand held computers and instrumentation, which =
included smart battery chargers and smart batteries. Lately his =
designs have been for telecommunications and industrial applications, as =
he is currently a senior power supply design engineer for the Power =
Products division of Reliability Inc. in Houston. Previous to that he =
worked 19 years for Texas Micro/ Radisys Corporation. He was first =
licensed in 1998 as KD5DJJ and upgraded to Extra and AC5VF in April of =
2000. Howard is active in the AMSAT and QRP groups, enjoys portable =
operation and has attended many ORP 'cons'. hleverenz@sbcglobal.net

AG5RS -- Ron Sparks -- (see above)

very little amateur radio activity, George decided to return to the =
hobby. To do this he had to progress from his former valve technology to =
solid-state circuitry. His inspiration was the series of articles by =
Doug DeMaw (then W1CER) in the QST. From these articles came his first =
simple QRP transmitters, and then 30 years of QRP construction!=20

George founded the G QRP Club and has been editor of the club's journal =
SPRAT since 1972. In the 1980's he wrote many articles on the building =
QRP equipment for the Short Wave Magazine. This was followed by a whole =
series of QRP projects in the Practical Wireless magazine throughout the =
1980's and 90's. George was among the first four QRP Hall of Fame =
inductees announced at Dayton in 1992.

Currently G3RJV writes a monthly practical construction column, =
"Continuing the Practical Way" for the Practical Wireless and the QRP =
Column for the R.S.G.B. magazine Radio Communication.=20

George is a Church of England (Episcopalian) priest and Vicar of St. =
Aidan's Church, Rochdale, in the northwest of England.=20

Simple Test Equipment for the QRPer - G3MFJ and G4WIF

Description: Graham and Tony will discuss construction of simple but =
effective test equipment such as AF and RF probes, signal generators, =
dummy loads, noise generators, etc. to get your QRP projects up and =
running.

Graham Firth is a retired Telephone Company engineer for British Telecom =
who, along with his partner and fellow QRPer Tony Fishpool G4WIF have =
become familiar faces at QRP gatherings in the US. Tony still works for =
BT as a network/web design engineer.

Graham is an accomplished designer, having designed a CW interface for =
the Epiphyte, and several simple items of test gear. Tony has also =
written a number of articles for QRP journals and designed simple test =
equipment such as the Spectrum Wavemeter.

Both gentlemen are heavily involved along with George Dobbs in the inner =
workings of the GQRP Club and both were inducted into the ARCI Hall of =
Fame in May 2003.

Graham and Tony have written regular columns for QRPP, which features =
their lineup of simple test gear. It too, has drawn rave reviews as =
almost everyone is able to build the simple circuits from bits (British =
for parts) from the junk box. They have both also written for Practical =
Wireless, SPRAT, QRP Homebrewer and QRP Quarterly. They are co-authors =
of the book "Simple Test Equipment for the QRPer".

Don't be fooled, their book (and this talk) will be of great use to any =
radio amateur. It is packed with constructional articles describing =
simple but effective test equipment that will help get that project =
working.

Graham and his lovely wife Patricia live in Leeds, England, which is in =
the Northern part of the country near George Dobbs in Rochdale. They =
have four children, 1 son, and 3 daughters.

Tony and his (equally lovely) wife Ruth live in Dartford in the South =
East of England and they have two sons.

=3D=
=3D=
=3D=

HF Pack and Portable Radio Design - WA6HHQ

Most modern, high-performance HF transceivers are far from portable; =
their high current drain--as much as 3 amps on receive--relegate them =
mostly to fixed-station use. When such rigs are used for field =
operation, large batteries or generators are needed.
But it's possible to design high-performance gear that you really can =
take with you. Eric will describe the current drain and performance =
advantages of a single-conversion, down-conversion system architecture, =
and touch on topics from latching relays to transfective LCDs to =
firmware-based power-reduction strategies.
This talk will appeal to both a technical and non-technical audience. =
You'll discover what's eating all those watts inside your desktop radio, =
and see how it is possible to design efficient rigs that can please the =
most demanding DXers and contest operators, yet retain the size, weight, =
and current drain of a go-anywhere portable.
Along the way, Eric will answer the question, "What is HF Pack?" This =
rapidly growing operating activity takes HF-portable operation to new =
heights--literally.

Eric Swartz -- WA6HHQ -- Eric is the co-designer of the Elecraft K2 =
transceiver
and co-founder of Elecraft with Wayne Burdick, N6KR. Licensed 32 years, =
he=20
credits his early interest in Amateur Radio with leading him to a career =
in=20
electronic design and management. He is a veteran of Silicon Valley and =
has
a B.S. in Engineering and Applied Science from Yale University. He is
a self described 'entrepreneurial addict' and has been involved in a =
number

of successful high tech start ups, most recently as co-founder and =
President
of Verisys Inc., the leading manufacturer of SCSI protocol analyzers for =
the
computer industry.

We hope you will join us!

72, 73, oo T.E. 'Doc' Drake, W5TB
Arlington, Texas
FISTS # 5365 QRP/ARCI # 3532 ARRL Life Member K1 #181 K2#1617

Date: Fri, 30 May 2003 14:10:52 est
From: brian@iquest.net
To: Wayne_W5KDJ <w5kdj@juno.com>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [151549] Re: Summer FOX Hunt starting
Message-ID: <3ed7acbc.36aa.0@iquest.net>
MIME-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Same here in Indiana....20m starts to work a little bit about 6:15PM usually.

I'm still gonna try to hear them. Won't know unless I try.

Lloyd sends with a lisp anyway, so he's easy to pick out of a pile up.

72 de KB9BVN

>
>You folks on the east coast will probably hear a few stations, but 7mcs
>at 1700L/2200z time here in Texas is usually dead.
>
>Wayne_W5KDJ
>NW Houston
>SV0WWW_TF2WJN
>ARS_1392 ARCI_11325 FISTS_10060 SOC_538
>
>--- "Doc K0EVZ" <dock0evz@earthlink.net> wrote:
>
>Gang:
>
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>73,
>--Doc/K0EVZ for the FOX Committee = Marshall N1FN, Tom N1TP,
> Bruce VE5JC, and Chuck Adams K7QO
>
>
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>
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>

Date: Fri, 30 May 2003 14:18:33 -0500
From: "Doc K0EVZ" <dock0evz@earthlink.net>
To: "qrp-l reflector" <qrp-l@lehigh.edu>,
"Elecraft " <elecraft@mailman.qth.net>
Cc: "doc k0evz earthlink" <dock0evz@earthlink.net>
Subject: [151550] FOX Hunt Hours [g]
Message-ID: <4120035530191833624@earthlink.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII

Gang:

The Summer FOX Hunt will begin at 2200Z and end at 2330Z. Just wanted to

see how many sharp-eyed folks are out there! IE, each hunt will last 90 minutes.

It is tough to know what the propagation will actually be during the hunts. 20 Metres has been good some of the time recently, but then horrible at other times. The X-flare(s) have really hit us, but hopefully this will all be smoothed out by the time for the first hunt this Sunday evening.

73,
--Doc/K0EVZ

Date: Fri, 30 May 2003 16:13:09 -0400
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [151551] N2APB makes (virtual) ink!
Message-ID: <5.1.1.6.1.20030530160732.00b153f0@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Folks,

If you look carefully, you'll find George Heron, N2APB, mentioned in the June issue of Embedded Systems Programming Magazine. There's an article that references his PSK31 audio beacon project. The article is online at <<http://www.embedded.com/story/0EG20030512S0079>>

Dave

Dave Hinerman
WD8CIV@att.net

End of QRP-L Digest 2936

